

Recombinant Human Cystatin-SA/CST2 Protein

Catalog No.: RP01174 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	1470	P09228

Tags

C-His

Synonyms

CST2

Product Information

Source	Purification
HEK293 cells	> 97% by SDS-PAGE.

Calculated MW	Observed MW
15.19 kDa	15-20 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of 50mM Tris, 150mM NaCl, pH 8.0. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize freeze-thaw cycles.

Contact

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Background

Basic Information

Description

Recombinant Human Cystatin-SA/CST2 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Trp21-Ala141) of human Cystatin SA/CST2 (Accession #NP_001313.1) fused with a 6×His tag at the C-terminus.

Bio-Activity

Measured by its ability to inhibit active Cathepsin L cleavage of a fluorogenic peptide substrate Z-LR-AMC. The IC50 value is <2.5 nM.

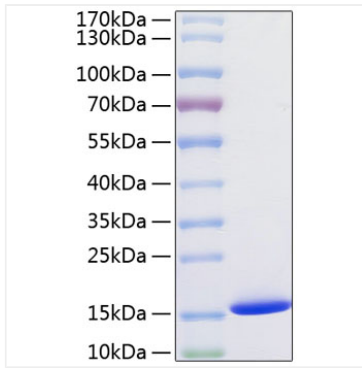
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

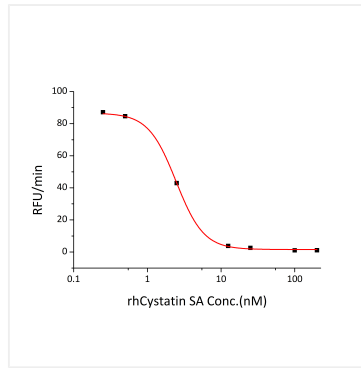
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human Cystatin-SA/CST2
Protein was determined by SDS-PAGE with
Coomassie Blue, showing a band at 16 kDa..



Recombinant Human CST6 inhibits active
Cathepsin L cleavage of a fluorogenic
peptide substrate Z-LR-AMC (Catalog #
ES008). The IC₅₀ value is <math>< 2.5\text{ nM}</math>.